(March 13, 1995)
Geotextile Properties

Section 9-33.2 is supplemented with the following:

Geotextile For Retaining Walls

Geotextile Property	Test Method[2]	Geotextile Property Requirements[1]
Water Permeability	WSDOT Test Method 924: Water Permeability of Geotextiles by Permittivity	0.005 cm/sec min.
AOS	WSDOT Test Method 922: Apparent Maximum Opening Size of Geotextiles	.84 mm max. (#20 sieve)
Grab Tensile Strength, min. in machine and x-machine direction	WSDOT Test Method 916: Breaking Load and Elongation of Geotextiles (Grab Method)	200 lbs. min.
Burst Strength	WSDOT Test Method 920: Diaphragm Bursting Strength of Geotextiles	300 psi min.
Puncture Resistance	WSDOT Test Method 921: Puncture Strength of Geotextiles	80 lbs. min.
Tear Strength, min. in machine and x-machine direction	WSDOT Test Method 919: Trapezoid Tearing Strength of Geotextiles	60 lbs. min.
Ultraviolet (UV) Radiation Stability (% Strength Retained)	ASTM D 4355-84, after 500 hours in Weatherometer	70% min.
Seam Breaking Strength, Only for seams perpendicular to wall face	WSDOT Test Method 918 and WSDOT Test Method 916 (Grab Test)	160 lbs min.

Wide Strip Tensile Strength For Retaining Walls

Wall Location	Vertical Reinforcement Layer Spacing	Distance From Top of Wall	Minimum Tensile Strength[3] Geotextile Polymer Type	
			Polyester	Polypropylene/ Polyethylene
$$1$$	$$	$$	$$	$$

The notes following the tables in Section 9-13.2 are revised to read as follows:

[1] All geotextile properties in Tables 1 through 7 are minimum average roll values (i.e., the test result for any sampled roll in a lot shall meet or exceed the values shown in the table).

[2] The test procedures used are essentially in conformance with the most recently approved ASTM geotextile test procedures, except for geotextile sampling and specimen conditioning which are in accordance with WSDOT Test Methods 914 and 915, respectively. Copies of these test methods are available at the Olympia Service Center Materials Laboratory in Tumwater.

[3] WSDOT Test Method 917; Method for Wide Width Tensile Strength. This strength requirement only applies in the geotextile direction perpendicular to the wall face.